

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1795	719/313-317.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 14:58
L2	1098	717/168-172.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 14:58
L3	690	709/200.ccls.	USPAT	OR	ON	2005/05/23 14:59
L4	1183	709/201-201.ccls.	USPAT	OR	ON	2005/05/23 15:00
L5	1832	709/201-202.ccls.	USPAT	OR	ON	2005/05/23 14:59
L6	1189	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 14:59
L7	1775	709/201-201.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 14:59
L8	1775	709/201-201.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:00
L9	6619	709/217-219.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:00
L10	12146	I1 or I2 or I3 or I4 or I5 or I6 or I7 or I8 or I9	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:00
L11	436	I10 and ((change or revision or version) same server) and ((newest or latest) same server)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:02
L12	246	I11 and (manag\$5 near5 server)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/05/23 15:03
S1	183	717/170.ccls.	USPAT	OR	ON	2004/03/30 12:55
S2	9	S1 and (object same server same version)	USPAT	OR	ON	2004/03/30 12:58
S3	39	S1 and (server near8 version)	USPAT	OR	ON	2004/03/30 13:02
S4	0	S1 and (server near8 factory)	USPAT	OR	ON	2004/03/30 13:02
S5	0	S1 and (server same factory)	USPAT	OR	ON	2004/03/30 13:02
S6	14	S1 and (server near8 select\$3)	USPAT	OR	ON	2004/03/30 13:19
S7	6	S1 and (server near8 (stop\$3 or restart\$3 or reboot\$3 or suspend\$3))	USPAT	OR	ON	2004/03/30 13:26
S8	24	S1 and (server near8 updat\$3)	USPAT	OR	ON	2004/03/30 13:26
S9	20	S1 and (server near4 updat\$3)	USPAT	OR	ON	2004/03/30 13:28
S10	11	S1 and (server near4 replac\$5)	USPAT	OR	ON	2004/03/30 13:31

S11	0	S1 and (server near4 swap\$5)	USPAT	OR	ON	2004/03/30 13:31
S12	0	S1 and (server near8 swap\$5)	USPAT	OR	ON	2004/03/30 13:31
S13	4	S1 and (server near8 exchang\$5)	USPAT	OR	ON	2004/03/30 13:33
S14	16	S1 and (server near8 chang\$5)	USPAT	OR	ON	2004/03/30 13:58
S15	1	S1 and (server near8 clus\$5)	USPAT	OR	ON	2004/03/30 14:03
S16	0	S1 and (server near8 warehouse)	USPAT	OR	ON	2004/03/30 14:00
S17	220	server near8 warehouse	USPAT	OR	ON	2004/03/30 14:00
S18	1	server near8 warehouse near8 version	USPAT	OR	ON	2004/03/30 14:01
S19	0	server near8 warehouse near8 upgrad\$3	USPAT	OR	ON	2004/03/30 14:01
S20	0	server near8 warehouse near8 latest	USPAT	OR	ON	2004/03/30 14:01
S21	9	server near8 warehouse near8 new\$3	USPAT	OR	ON	2004/03/30 14:01
S22	14	S1 and (server near8 group)	USPAT	OR	ON	2004/03/30 14:10
S23	14	S1 and (server near8 manager)	USPAT	OR	ON	2004/03/30 14:10
S24	1	"6074434".pn.	USPAT	OR	OFF	2004/03/30 15:06
S25	1	"I27" and (client adj server)	USPAT	OR	OFF	2004/03/30 16:03
S26	1	"I27" and (client near server)	USPAT	OR	OFF	2004/03/30 16:03
S27	1	"I27" and (client near2 server)	USPAT	OR	OFF	2004/03/30 16:03
S28	1	"I27" and (client near3 server)	USPAT	OR	OFF	2004/03/30 16:04
S29	1	"I27" and (client near5 server)	USPAT	OR	OFF	2004/03/30 16:04
S30	7	717/170.ccls. and (server near access\$3 near server)	USPAT	OR	OFF	2004/03/30 16:09
S31	0	717/170.ccls. and (server near as near client)	USPAT	OR	OFF	2004/03/30 16:09
S32	3	server near as near client	USPAT	OR	OFF	2004/03/30 16:25
S33	4	server near8 (Ip or address) near8 shutdown	USPAT	OR	OFF	2004/03/30 16:26
S34	1	"same" near8 (Ip or address) near8 shutdown	USPAT	OR	OFF	2004/03/30 16:26
S35	161	"same" near8 (Ip or address) near8 (shutdown or (turn adj off) or turnoff or (shut adj down) or stop\$3)	USPAT	OR	OFF	2004/03/30 16:27
S36	20	server near8 (Ip or address) near8 (shutdown or (turn adj off) or turnoff or (shut adj down) or stop\$3)	USPAT	OR	OFF	2004/03/30 16:29
S37	10	server near8 name near8 conflict\$3	USPAT	OR	OFF	2004/03/30 16:30
S38	0	717/170.ccls. and (last near4 server near4 used)	USPAT	OR	ON	2004/03/30 17:16

S39	1	717/170.ccls. and ((last or recent\$2) near4 server near4 used)	USPAT	OR	ON	2004/03/30 17:17
S40	0	717/170.ccls. and ((last or recent\$2) adj used adj server)	USPAT	OR	ON	2004/03/30 17:17
S41	3	((last or recent\$2) adj used adj server)	USPAT	OR	ON	2004/03/30 17:19
S42	1	((last or recent\$2) adj access\$2 adj server)	USPAT	OR	ON	2004/03/30 17:24
S43	2	((last\$3 or recent\$2) adj access\$2 adj server)	USPAT	OR	ON	2004/03/30 17:24
S44	12	((last or recent\$2) adj2 access\$2 adj2 server)	USPAT	OR	ON	2004/03/30 17:25
S45	8	((last or recent\$2) adj2 us\$2 adj2 server)	USPAT	OR	ON	2004/03/30 17:26
S46	268433	network	USPAT	OR	ON	2003/10/16 18:10
S47	160	network and (server same version\$3 same switch)	USPAT	OR	ON	2003/10/16 18:13
S48	100	(network and (server same version\$3 same switch)) and client	USPAT	OR	ON	2003/10/16 18:12
S49	29	(network and (server same version\$3 same switch)) and (dynamic\$5 near5 server)	USPAT	OR	ON	2003/10/16 18:23
S50	13	((network and (server same version\$3 same switch)) and (dynamic\$5 near5 server)) and (switch adj2 server)	USPAT	OR	ON	2003/10/16 18:13
S51	10	(network and (server same version\$3 same switch)) and (select adj server)	USPAT	OR	ON	2003/10/16 18:17
S52	0	"L10" and (select adj server)	USPAT	OR	ON	2003/10/16 18:17
S53	233	network and (select adj server)	USPAT	OR	ON	2003/10/16 18:22
S54	59	(network and (select adj server)) and (dynamic\$5 near5 server)	USPAT	OR	ON	2003/10/16 18:21
S55	17	((network and (select adj server)) and (dynamic\$5 near5 server)) and (version near3 server)	USPAT	OR	ON	2003/10/16 18:23
S56	51	network and (replace\$3 adj server)	USPAT	OR	ON	2003/10/16 18:24
S57	13	(network and (replace\$3 adj server)) and (dynamic\$5 near5 server)	USPAT	OR	ON	2003/10/16 18:23
S58	0	((network and (replace\$3 adj server)) and (dynamic\$5 near5 server)) and (version near3 server)	USPAT	OR	ON	2003/10/16 18:23
S59	8	((network and (replace\$3 adj server)) and (dynamic\$5 near5 server)) and version	USPAT	OR	ON	2003/10/16 18:24

S60	1331	network and (version near5 (change or upgrade))	USPAT	OR	ON	2003/10/16 18:30
S61	78	network and (server near5 version near5 (change or upgrade))	USPAT	OR	ON	2003/10/16 18:34
S62	78	(network and (server near5 version near5 (change or upgrade))) and servers	USPAT	OR	ON	2003/10/16 18:30
S63	43	((network and (server near5 version near5 (change or upgrade))) and servers) and (locat\$3 near5 server)	USPAT	OR	ON	2003/10/16 18:31
S64	3732	network and (select\$3 near3 server)	USPAT	OR	ON	2003/10/16 18:35
S65	11	network and ((select\$3 near3 server) same dynamic\$5 same version)	USPAT	OR	ON	2003/10/16 18:36
S66	134	network and ((server same version same upgrade))	USPAT	OR	ON	2003/10/16 18:37
S67	15	(network and ((server same version same upgrade))) and (replac\$3 near5 server)	USPAT	OR	ON	2003/10/16 18:39
S68	34	network and (server adj upgrade)	USPAT	OR	ON	2003/10/16 18:40
S69	250	network and (switch adj server)	USPAT	OR	ON	2003/10/16 18:40
S70	3	network and ((switch adj server) same dynamic\$5)	USPAT	OR	ON	2003/10/16 19:04
S71	32	"5828847".URPN.	USPAT	OR	OFF	2003/10/16 18:42
S72	0	network and ((switch same server) same dynamic\$5 same (version near2 upgrad\$3))	USPAT	OR	ON	2003/10/16 19:05
S73	0	network and ((switch same server) same (version near2 upgrad\$3))	USPAT	OR	ON	2003/10/16 19:05
S74	363	network and (version near2 upgrad\$3)	USPAT	OR	ON	2003/10/16 19:07
S75	100	(network and (version near2 upgrad\$3)) and ((switch\$3 or replac\$3) same server)	USPAT	OR	ON	2003/10/16 19:06
S76	12	(network and (version near2 upgrad\$3)) and ((switch\$3 or replac\$3) near2 server)	USPAT	OR	ON	2003/10/16 19:08
S77	0	network and ((stop\$3) near4 server same "same" near2 version)	USPAT	OR	ON	2003/10/16 19:50
S78	2	network and ((stop\$3 or halt) same server same "same" near2 version)	USPAT	OR	ON	2003/10/16 19:50
S79	67	network and ((stop\$3 or halt) adj server)	USPAT	OR	ON	2003/10/16 19:51
S80	39	(network and ((stop\$3 or halt) adj server)) and version	USPAT	OR	ON	2003/10/16 19:51

S81	14	((network and ((stop\$3 or halt) adj server)) and version) and (switch\$ same server)	USPAT	OR	ON	2003/10/16 19:53
S82	1	network and ("same" same (server adj name) same stop same server)	USPAT	OR	ON	2003/10/16 20:30
S83	0	network and ("same" same (server adj name) same halt same server)	USPAT	OR	ON	2003/10/16 19:54
S84	1	network and ((server adj name) same halt same server)	USPAT	OR	ON	2003/10/16 19:55
S85	231	((server same name) same (halt\$3 or stop\$3))	USPAT	OR	ON	2003/10/16 20:09
S86	151	((((server same name) same (halt\$3 or stop\$3))) and version	USPAT	OR	ON	2003/10/16 20:05
S87	114	((((server same name) same (halt\$3 or stop\$3))) and version) and dynamic\$5	USPAT	OR	ON	2003/10/16 20:05
S88	73	((((((server same name) same (halt\$3 or stop\$3))) and version) and dynamic\$5) and switch\$3	USPAT	OR	ON	2003/10/16 20:05
S89	105	(((server same name) same (halt\$3 or stop\$3))) and (version same server)	USPAT	OR	ON	2003/10/16 20:05
S90	65	((((server same name) same (halt\$3 or stop\$3))) and (version same server)) and (dynamic\$5 same server)	USPAT	OR	ON	2003/10/16 20:05
S91	38	((((((server same name) same (halt\$3 or stop\$3))) and (version same server)) and (dynamic\$5 same server)) and (switch\$3 same server)	USPAT	OR	ON	2003/10/16 20:05
S92	21	((server adj name) same (halt\$3 or stop\$3))	USPAT	OR	ON	2003/10/16 20:20
S93	29414	hitachi.asn.	USPAT	OR	ON	2003/10/16 20:21
S94	1	("6173312").PN.	USPAT; USOCR	OR	OFF	2004/03/30 17:15
S95	7	"6173312".URPN.	USPAT	OR	OFF	2003/10/16 20:22
S96	16	("5005122" "5490252" "5548724" "5603029" "5633999" "5781716" "5796934" "5809233" "5812751" "5828847" "5948069" "5974452" "6021263" "6021433" "6081833" "6085238").PN.	USPAT	OR	OFF	2003/10/16 20:23
S97	1	("6101508").PN.	USPAT; USOCR	OR	OFF	2003/10/16 20:27
S98	16	"6101508".URPN.	USPAT	OR	OFF	2003/10/16 20:28
S99	421	("same" near2 (IP adj address)))	USPAT	OR	ON	2003/10/16 20:32

S10 0	0	((("same" near2 (IP adj address))) same ((stop\$3 or halt\$3) near2 server)	USPAT	OR	ON	2003/10/16 20:32
S10 1	8	((("same" near2 (IP adj address))) and ((stop\$3 or halt\$3) near2 server)	USPAT	OR	ON	2003/10/16 20:37
S10 2	3377	"servers" near3 name	USPAT	OR	ON	2003/10/16 20:38
S10 3	1623	"servers" adj2 name	USPAT	OR	ON	2003/10/16 20:38
S10 4	154	"servers" adj2 name	USPAT	OR	OFF	2003/10/16 20:39
S10 5	73	"servers" adj name	USPAT	OR	OFF	2003/10/16 20:39
S10 6	23	"servers" near version	USPAT	OR	OFF	2003/10/16 20:42
S10 7	0	(stop or halt) adj server adj2 (old\$2 adj version)	USPAT	OR	OFF	2003/10/16 20:42
S10 8	0	(stop or halt) adj server adj2 (old\$2 adj version)	USPAT	OR	ON	2003/10/16 20:43
S10 9	0	(stop\$3 or halt\$3) adj server adj2 (old\$2 adj version)	USPAT	OR	ON	2003/10/16 20:43
S11 0	0	((stop\$3 or halt\$3) adj server) same ((old\$2 adj version))	USPAT	OR	ON	2003/10/16 20:44
S11 1	1	((stop\$3 or halt\$3) same server) same ((old\$2 adj version))	USPAT	OR	ON	2003/10/16 21:03
S11 2	3	(("6480893") or ("6263368") or ("6523130")).PN.	USPAT; USOCR	OR	OFF	2003/10/16 21:03
S11 3	27	server adj factory	USPAT	OR	ON	2004/03/29 19:15
S11 4	5755	server near8 location	USPAT	OR	ON	2004/03/29 19:15
S11 5	11	(server adj factory) and server near8 location	USPAT	OR	ON	2004/03/29 19:15
S11 6	0	((server adj factory) and server near8 location) and select near2 server	USPAT	OR	ON	2004/03/29 19:16
S11 7	0	((server adj factory) and server near8 location) and (select near2 server)	USPAT	OR	ON	2004/03/29 19:16
S11 8	0	(server adj factory) and (select near2 server)	USPAT	OR	ON	2004/03/29 19:16
S11 9	5	(server adj factory) and (select near8 server)	USPAT	OR	ON	2004/03/29 19:17
S12 0	1	select with server with latest with version	USPAT	OR	ON	2004/03/29 19:18

S12 1	179	server with latest with version	USPAT	OR	ON	2004/03/29 19:19
S12 2	9	access with server with latest with version	USPAT	OR	ON	2004/03/29 19:23
S12 3	4	("5787234" "6377162" "6405144" "6510350").PN.	USPAT	OR	OFF	2004/03/29 19:21
S12 4	3	server near8 contain\$3 near8 latest near3 version	USPAT	OR	ON	2004/03/29 19:23
S12 5	0	select near8 server near8 contain\$3 near8 latest near3 version	USPAT	OR	ON	2004/03/29 19:23
S12 6	0	select near8 server near8 contain\$3 near8 latest near3 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:24
S12 7	98	select near8 server near8 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:24
S12 8	5	select near8 server near8 based near2 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:25
S12 9	18	"154138"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:25
S13 0	12	"337673"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:26
S13 1	0	allocat\$3 near8 server near8 version near8 latest	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:26
S13 2	18	allocat\$3 near8 server near8 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:27
S13 3	196	locat\$3 near8 server near8 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:27
S13 4	9	locat\$3 near8 server near8 version near8 latest	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:29
S13 5	722	server near8 "same" near8 name	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:29
S13 6	1	server near8 "same" near8 name near8 stop\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:31
S13 7	3	server near8 "same" near8 ID near8 stop\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:33

S13 8	3	server near8 "same" near8 address near8 stop\$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:35
S13 9	18	"154138"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:35
S14 0	0	sadaji-asano\$.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:35
S14 1	27	asano-sadaji\$.in.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:36
S14 2	1	asano-sadaji\$.in. and version-up	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:48
S14 3	0	"11154138".URPN.	USPAT	OR	OFF	2004/03/29 19:36
S14 4	665	version-up	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:48
S14 5	34	version-up near8 server	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:51
S14 6	305	server near8 version near8 (manager or management)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:51
S14 7	56	server near2 version near8 (manager or management)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:52
S14 8	43	server near2 latest near8 (manager or management)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 19:53
S14 9	15	select near8 server near8 latest	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:00
S15 0	8034	709/229,226,225,223,224.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:00
S15 1	32	709/229,226,225,223,224.ccls. and (server near8 version near8 latest)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:01
S15 2	2643	709/223.ccls.	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:01
S15 3	176	709/223.ccls. and (server near8 version)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:02

S15 4	2	709/223.ccls. and (server near8 version near8 replac\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:03
S15 5	7	709/223.ccls. and (select\$3 near8 server near8 version)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:04
S15 6	17	709/223.ccls. and (select\$3 near8 server near8 dynamic\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:07
S15 7	2	709/223.ccls. and (replac\$3 near8 server near8 dynamic\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:07
S15 8	24	replac\$3 near8 server near8 dynamic\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:12
S15 9	20	upgrad\$3 near8 server near8 dynamic\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:21
S16 0	444	select near8 server near3 list	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:22
S16 1	3144	server near3 selection	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:23
S16 2	2	server near3 selection near8 version near8 latest	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:23
S16 3	2	server adj3 selection near8 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:24
S16 4	0	server adj selection near8 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:24
S16 5	472	server adj selection	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:24
S16 6	3	server adj selection same version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:27
S16 7	35	server near5 cluster near8 version	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:33
S16 8	218	server near5 swap\$4	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/03/29 20:33
S16 9	95	server near5 swap\$4	USPAT	OR	ON	2004/03/29 20:34
S17 0	0	server near5 swap\$4 near8 version	USPAT	OR	ON	2004/03/29 20:33

S17 1	1	server near5 swap\$4 same version	USPAT	OR	ON	2004/03/29 20:33
S17 2	6	(server near5 swap\$4) and (server near version)	USPAT	OR	ON	2004/03/29 20:41
S17 3	11	replac\$3 near8 upgraded near8 server	USPAT	OR	ON	2004/03/29 20:41

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1 [Integrating an object server with other worlds](#)

Alan Purdy, Bruce Schuchardt, David Maier

January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1

Full text available:  [pdf\(1.61 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Object-oriented database servers are beginning to appear on the commercial market in response to a demand by application developers for increased modeling power in database systems. Before these new servers can enhance the productivity of application designers, systems designers must provide simple interfaces to them from both procedural and object-oriented languages. This paper first describes a successful interface between an object server and two procedural languages (C and Pascal). Beca ...

2 [Extending a persistent object framework to enhance enterprise application server performance](#)

John Grundy, Steve Newby, Thomas Whitmore, Peter Grundeman

January 2002 **Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5**, Volume 24 Issue 2

Full text available:  [pdf\(795.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

High-volume transaction processing speed is critical for adequate performance in many enterprise application servers. We describe our experiences using an object-oriented persistency framework to achieve greatly enhanced server response by the transparent use of main-memory database technology. We took an application server whose data persistency is abstracted via a persistent object framework and replaced a version of the framework using a relational database for persistency with one that uses ...

Keywords: main-memory databases, persistent object frameworks, transaction processing performance

3 [Garbage collection for a client-server persistent object store](#)

Laurent Amsaleg, Michael J. Franklin, Olivier Gruber

August 1999 **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 3

Full text available:  [pdf\(267.18 KB\)](#)

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We describe an efficient server-based algorithm for garbage collecting persistent object stores in a client-server environment. The algorithm is incremental and runs concurrently with client transactions. Unlike previous algorithms, it does not hold any transactional locks on data and does not require callbacks to clients. It is fault-tolerant, but performs very little logging. The algorithm has been designed to be integrated into existing systems, and therefore it works with standard i ...

Keywords: client-server system, logging, persistent object-store, recovery

4 **UniSQL's next-generation object-relational database management system**



Albert D'Andrea, Phil Janus

September 1996 **ACM SIGMOD Record**, Volume 25 Issue 3

Full text available: [pdf\(485.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Object-Relational DBMSs have been receiving a great deal of attention from industry analysts and press as the next generation of database management systems. The motivation for a next generation DBMS is driven by the reality of shortened business cycles. This dynamic environment demands fast, cost-effective, time-to-market of new or modified business processes, services, and products. To support this important business need, the next generation DBMS must: 1. leverage the la ...

5 **Synchronization and recovery in a client-server storage system**



E. Panagos, A. Biliris

August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 3

Full text available: [pdf\(205.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Client-server object-oriented database management systems differ significantly from traditional centralized systems in terms of their architecture and the applications they target. In this paper, we present the client-server architecture of the EOS storage manager and we describe the concurrency control and recovery mechanisms it employs. EOS offers a semi-optimistic locking scheme based on the multi-granularity two-version two-phase locking protocol. Under this scheme, multiple concurrent reade ...

Keywords: Checkpoint, Client-server architecture, Object management, Concurrency control, Locking, Logging, Recovery, Transaction management

6 **An object server for an object-oriented database system**



Andrea H. Skarra, Stanley B. Zdonik, Stephen P. Reiss

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Full text available: [pdf\(853.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper summarizes the interface, implementation, and use of a server process that is used as a backend by an object-oriented database system. This server is responsible for managing objects on secondary storage, managing transactions, and implementing a simple form of trigger. We sketch the interface of this system and point out some of the more interesting implementation issues that were encountered in building it. Client processes communicate asynchronously with the server ...

7 **GIS and the internet: Web architectures for scalable moving object servers**



Cédric du Mouza, Philippe Rigaux

November 2002 **Proceedings of the 10th ACM international symposium on Advances in geographic information systems**

Full text available:  pdf(309.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper describes how the Web can be used as a support for intensive querying and display of large moving objects databases. We present first an architecture for a system which integrates incoming events provided by GPS servers in a spatio-temporal database, and permits to register *queries* over this database. We focus on *continuous* queries that allow users to receive notification of events affecting the initial result, and discuss the process of *matching* queries and ...

8 Automatic generation of performance models using the distributed management framework (DMF) 

Asham El Rayess, Jerome A. Rolia

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(98.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The purpose of the Distributed Management Framework (DMF) is to provide a layer of abstraction at a level convenient for management application developers. Specifically, it liberates the management application developer from the need to deal with application-dependent format, location, and access methods of management information. It also protects management applications from the need to evolve in response to changes in the managed system. In this paper we describe the DMF, illustrating its usef ...

9 Adaptive, fine-grained sharing in a client-server OODBMS: a callback-based approach 

Markos Zaharioudakis, Michael J. Carey, Michael J. Franklin

December 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 4

Full text available:  pdf(441.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

For reasons of simplicity and communication efficiency, a number of existing object-oriented database management systems are based on page server architectures; data pages are their minimum unit of transfer and client caching. Despite their efficiency, page servers are often criticized as being too restrictive when it comes to concurrency, as existing systems use pages as the minimum locking unit as well. In this paper we show how to support object-level locking in a page-server context. Sev ...

Keywords: cache coherency, cache consistency, client-server databased, fine-grained sharing, object-oriented databases, performance analysis

10 The benefits of CORBA-based network management 

Paul Haggerty, Krishnan Seetharaman

October 1998 **Communications of the ACM**, Volume 41 Issue 10

Full text available:  pdf(172.08 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Semantic integrity support in SQL:1999 and commercial (object-)relational database management systems 

Can Türker, Michael Gertz

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Full text available:  pdf(345.55 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The correctness of the data managed by database systems is vital to any application that utilizes data for business, research, and decision-making purposes. To guard databases against erroneous data not reflecting real-world data or business rules, semantic integrity

constraints can be specified during database design. Current commercial database management systems provide various means to implement mechanisms to enforce semantic integrity constraints at database run-time. In this paper, we give ...

Keywords: Constraint enforcement, Object-relational databases, SQL:1999, Semantic integrity constraints

12 The GemStone object database management system

Paul Butterworth, Allen Otis, Jacob Stein
October 1991 **Communications of the ACM**, Volume 34 Issue 10

Full text available:  pdf(6.60 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: GemStone, database management systems, object-oriented

13 Transactional client-server cache consistency: alternatives and performance

Michael J. Franklin, Michael J. Carey, Miron Livny
September 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 3

Full text available:  pdf(452.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Client-server database systems based on a data shipping model can exploit client memory resources by caching copies of data items across transaction boundaries. Caching reduces the need to obtain data from servers or other sites on the network. In order to ensure that such caching does not result in the violation of transaction semantics, a transactional cache consistency maintenance algorithm is required. Many such algorithms have been proposed in the literature and, as all provide the sam ...

14 Web and e-business application: Content management on server farm with layer-7 routing

Mon-Yen Luo, Chu-Sing Yang, Chun-Wei Tseng
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:  pdf(540.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service replication on a server farm is becoming increasingly widespread as the explosive growth of the Web is straining the architecture of many Internet sites. Layer-7 routing, routing packets based on requested content, has been recognized as a powerful approach to distribute workload among these server farms. However, little attention has been given to how to configure content-related knowledge into the layer-7 routing mechanisms. In addition, the used data structures for storing content-rel ...

15 Fine-grained sharing in a page server OODBMS

Michael J. Carey, Michael J. Franklin, Markos Zaharioudakis
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available:  pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For reasons of simplicity and communication efficiency, a number of existing object-oriented database management systems are based on page server architectures; data pages are their minimum unit of transfer and client caching. Despite their efficiency, page servers are often criticized as being too restrictive when it comes to concurrency, as existing systems use pages as the minimum locking unit as well. In this paper we show how

to support object-level locking in a page server context. Se ...

16 A toolkit for the incremental implementation of heterogeneous database management systems 

Pamela Drew, Roger King, Dennis Heimbigner

October 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 1 Issue 2

Full text available:  pdf(2.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The integration of heterogeneous database environments is a difficult and complex task. The A la carte Framework addresses this complexity by providing a reusable and extensible architecture in which a set of heterogeneous database management systems can be integrated. The goal is to support incremental integration of existing database facilities into heterogeneous, interoperative, distributed systems. The Framework addresses the three main issues in heterogeneous systems integration. First, it ...

Keywords: database toolkits, extensible databases, heterogeneous databases, heterogeneous transaction management, incremental integration, open architectures, reconfigurable architectures

17 OOPSLA distributed object management 

John R. Rymer, Richard Mark Soley, William Stephen Andreas, Ian Fuller, Neal Jacobson, Richard A. Demers

September 1990 **ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications**, Volume 25 Issue 10

Full text available:  pdf(267.83 KB) Additional Information: [full citation](#), [index terms](#)

18 Experiences in integrating distributed shared memory with virtual memory management 

R. Ananthanarayanan, Sathis Menon, Ajay Mohindra, Umakishore Ramachandran

July 1992 **ACM SIGOPS Operating Systems Review**, Volume 26 Issue 3

Full text available:  pdf(1.56 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

While the duality between message-passing and shared memory for interprocess communication is well-known, the shared memory paradigm has drawn considerable attention in recent times even in distributed systems. Distributed Shared Memory (DSM) is the abstraction for supporting the notion of shared memory in a physically non-shared (distributed) architecture. It gives a uniform set of mechanisms for accessing local and remote memories. Further, by combining shared memory style synchronization with ...

19 Web-based personalization and management of interactive video 

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available:  pdf(611.20 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media asset management, micro-payment, video personalization

20 Network management views using delegated agents 

Germán Goldszmidt

November 1996 **Proceedings of the 1996 conference of the Centre for Advanced Studies
on Collaborative research**

Full text available:  [pdf\(296.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The lack of an appropriate external data model is one of the reasons for the dearth of effective network management applications. Many network management computations over Management Information Bases (MIBs) cannot be practically accomplished through remote interactions. This paper describes the design of an mib Computations System that supports the dynamic definition of external data models for mibs. The system consists of a View Definition Language (VDL) to specify mib external views and SNMP- ...

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1 Semantic integrity support in SQL:1999 and commercial (object-)relational database management systems

Can Türker, Michael Gertz

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Full text available:  [pdf\(345.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The correctness of the data managed by database systems is vital to any application that utilizes data for business, research, and decision-making purposes. To guard databases against erroneous data not reflecting real-world data or business rules, semantic integrity constraints can be specified during database design. Current commercial database management systems provide various means to implement mechanisms to enforce semantic integrity constraints at database run-time. In this paper, we give ...

Keywords: Constraint enforcement, Object-relational databases, SQL:1999, Semantic integrity constraints

2 Exploiting high-level coherence information to optimize distributed shared state

DeQing Chen, Chunqiang Tang, Brandon Sanders, Sandhya Dwarkadas, Michael L. Scott

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 38 Issue 10

Full text available:  [pdf\(841.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

InterWeave is a distributed middleware system that supports the sharing of strongly typed, pointer-rich data structures across a wide variety of hardware architectures, operating systems, and programming languages. As a complement to RPC/RMI, InterWeave facilitates the rapid development of maintainable code by allowing processes to access shared data using ordinary reads and writes. Internally, InterWeave employs a variety of aggressive optimizations to obtain significant performance improvements ...

3 Position statements: A CORBA based platform as communication support for synchronous Collaborative Virtual Environment

Stéphane Louis Dit Picard, Samuel Degrande, Christophe Gransart

October 2001 **Proceedings of the 2001 international workshop on Multimedia middleware**

Full text available:  [pdf\(584.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the use of CORBA middleware to support communication in a 3D synchronous Collaborative Virtual Environment called SPIN-3D: users interact simultaneously and work together on 3D shared objects. Shared objects are duplicated: each participant owns a copy of each shared object and our CORBA based platform allows to synchronize their state and to manage the session. Our platform supports two ways of communication: one using a remote method invocation mechanism for "one shoot" co ...

Keywords: CORBA, CVE, MIOP, communication platform design using CORBA middleware, multi-user virtual world, multimedia streaming service, reliable multicast

4 VRML data sharing in the spin-3D CVE

Stéphane Louis Dit Picard, Samuel Degrande, Christophe Gransart, Christophe Chaillou
February 2002 **Proceeding of the seventh international conference on 3D Web technology**

Full text available: [!\[\]\(6204b2b9447b1eb7bc3c04a584718a35_img.jpg\) pdf\(459.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present the design and implementation of a VRML97 multi-user layer introduced in SPIN-3D, our Distributed Collaborative Virtual Environment. The main consideration of our multi-user extension is the ease of design of multi-user objects from single-user standard VRML97 objects. Any standard VRML97 browser must at least display the single-user content without taking account of the multi-user description. Whereas other approaches use a VRML node insertion mechanism, such as in Liv ...

Keywords: collaborative virtual environment (CVE), common object request broker architecture (CORBA), multi-user technology, multicast communication platform, virtual reality modeling language (VRML)

5 Recovery management in QuickSilver

Rober Haskin, Yoni Malachi, Gregory Chan
February 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 1

Full text available: [!\[\]\(378038420973c474427b09381a3aac1a_img.jpg\) pdf\(2.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes QuickSilver, developed at the IBM Almaden Research Center, which uses atomic transactions as a unified failure recovery mechanism for a client-server structured distributed system. Transactions allow failure atomicity for related activities at a single server or at a number of independent servers. Rather than bundling transaction management into a dedicated language or recoverable object manager, Quicksilver exposes the basic commit protocol and log rec ...

6 An analysis of XML database solutions for the management of MPEG-7 media descriptions

Utz Westermann, Wolfgang Klas
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: [!\[\]\(ce2ec3be86913388b376b7085a0aa5b2_img.jpg\) pdf\(448.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate curren ...

Keywords: MPEG-7, XML database systems, multimedia databases

7 [Modern languages and Microsoft's component object model](#)

David N. Gray, John Hotchkiss, Seth LaForge, Andrew Shalit, Toby Weinberg
May 1998 **Communications of the ACM**, Volume 41 Issue 5

Full text available:  [pdf\(340.03 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)



8 [Partitioned garbage collection of a large object store](#)

Umesh Maheshwari, Barbara Liskov
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We present new techniques for efficient garbage collection in a large persistent object store. The store is divided into partitions that are collected independently using information about inter-partition references. This information is maintained on disk so that it can be recovered after a crash. We use new techniques to organize and update this information while avoiding disk accesses. We also present a new global marking scheme to collect cyclic garbage across partitions. Global marking ...

Keywords: cyclic garbage, garbage collection, object database, partitions

9 [Poster session and reception: Reusable learning objects: a survey of LOM-based repositories](#)

Filip Neven, Erik Duval
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available:  [pdf\(102.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



In this paper, we survey the field of learning object repositories. Learning objects are typically relatively small content components that are meant to be reusable in different contexts. Associated to these learning objects are metadata, so that they can be managed, searched, etc. As the international standardization in this area is making important progress, the number of these repositories is growing rapidly, and the whole field of learning objects is rapidly maturing as a research area in it ...

Keywords: Learning Object Metadata (LOM), digital libraries, learning object repositories, metadata, reusable learning objects

10 [Distributed systems - programming and management: On remote procedure call](#)

Patrícia Gomes Soares
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**

Full text available:  [pdf\(4.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)



The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

11 Design version management in the GARDEN framework

Flávio R. Wagner, Arnaldo H. Viegas de Lima

June 1991 **Proceedings of the 28th conference on ACM/IEEE design automation**Full text available:  [pdf\(830.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**12 Toward a unified framework for version modeling in engineering databases**

Randy H. Katz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4Full text available:  [pdf\(3.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Support for unusual applications such as computer-aided design data has been of increasing interest to database system architects. In this survey, we concentrate on one aspect of such support, namely, version modeling. By this, we mean the concepts suitable for structuring a database of complex engineering artifacts that evolve across multiple representations and over time and the operations through which such artifact descriptions are created and modified. There have been ...

13 Optimistic replication

Yasushi Saito, Marc Shapiro

March 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 1Full text available:  [pdf\(656.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work practices and tolerate failures in low-quality communication links. The importance of such techniques is increasing as collaboration through wide-area and mobile networks becomes popular. Optimistic replication deploys algorithms not seen in tradition ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

14 Electronic document addressing: dealing with change

Helen Ashman

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3Full text available:  [pdf\(92.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The management of electronic document collections is fundamentally different from the management of paper documents. The ephemeral nature of some electronic documents means that the document address (i.e., reference details of the document) can become incorrect some time after coming into use, resulting in references, such as index entries and hypertext links, failing to correctly address the document they describe. A classic case of invalidated references is on the World Wide Web—lin ...

Keywords: 404, link, link integrity

15 The right tools for the right jobs: developing a student management system

J. P. Brannan, James Landis

October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User**

services: Building the futureFull text available:  pdf(124.83 KB) Additional Information: [full citation](#), [index terms](#)**Keywords:** Linux, MySQL, SQL, Web interface, php, scheduling, student management**16 Coplink: a case of intelligent analysis and knowledge management** 

Roslin V. Hauk, Hsinchun Chen

January 1999 **Proceeding of the 20th international conference on Information Systems**Full text available:  pdf(245.47 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**17 A database management system for a VLSI design system** 

Gwo-Dong Chen, Tai-Ming Parng

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation**Full text available:  pdf(810.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A special purpose database management system for VLSI design environment is presented. Besides supporting design data management and tools integration, the system provides lots of facilities for supporting fast development of efficient and powerful VLSI CAD tools. This system could simplify the task and reduce efforts of implementing an integrated VLSI design system.

18 Manageability, availability, and performance in porcupine: a highly scalable, cluster-based mail service 

Yasushi Saito, Brian N. Bershad, Henry M. Levy

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3Full text available:  pdf(2.52 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication**19 Managing multiple and distributed ontologies on the Semantic Web** 

A. Maedche, B. Motik, L. Stojanovic

November 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 4Full text available:  pdf(375.18 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In traditional software systems, significant attention is devoted to keeping modules well separated and coherent with respect to functionality, thus ensuring that changes in the system are localized to a handful of modules. Reuse is seen as the key method in reaching that goal. Ontology-based systems on the Semantic Web are just a special class of software systems, so the same principles apply. In this article, we present an integrated framework for managing multiple and distributed ontologies o ...

Keywords: Multiple and distributed ontologies, Ontology evolution

- 20 Unix RDBMS: the next generation what are the Unix relational-database vendors doing to survive in the next generation of client/server environments** 

Bill Rosenblatt

December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4

Full text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [index terms](#)

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IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

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Geng-Sheng Kuo;

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Volume 3, Issue 2, March-April 2001 Page(s):53 - 55

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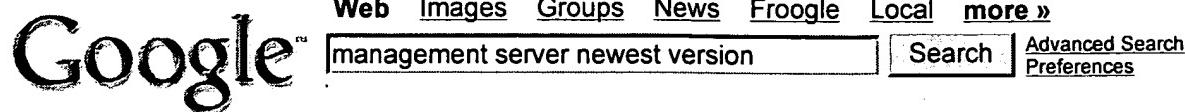
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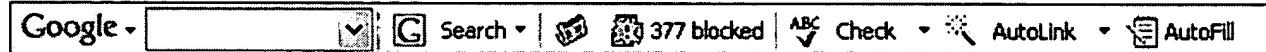
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